


Name:	G.SHANTHAKUMARI			
				
Designation:	ASSOCIATE PROFESSOR			
Qualification:	M.E.,(PhD)			
Area of specialization:	EMBEDDED SYSTEM TECHNOLOGIES			
Experience : (As On April 2021)	Industrial Experience		Teaching Experience	
	-		21 YEARS	
Number of workshop / FDP attended:	Number of Workshops		Number of FDPs	
	8		18	
Publications:	Conference		Journal	
	National	International	National	International
	3	4	1	8

Professional Body Membership:	IAENG-245664 ISTE-LM131454 IEEE			
Staff Achievements:	Achieved 100% results(8 subjects)			
Conference Details:	Sl. No.	Title	Venue	Month/Year
	1.	National conference on Advanced techniques in instrumentation, control & communication engineering	St. Peters college of Engineering	March 2008
	2.	National conference on signal & image processing	SMK Fomra Institute of Technology	9 th & 10 th April 2010
	3.	Attended National Conference on “Advanced communication & computing techniques”	Sri Sairam engineering college	11 th April 2014
	4.	International conference on Advances emerging technologies 2015.	Jaya Engineering College	28 th March 2015
	5.	International intellectual	Aalim Muhammed	

		convergence on advances in science and engineering	salegh college of engineering	3 rd & 4 th March 2017
	6.	International conference on communication computing & Internet of things	Sri Sairam engineering college	15 th to 17 th February 2018
	7.	SLAAI- International Conference on Artificial Intelligence – 2018	Faculty of Information Technology University of Moratuwa, Srilanka	20.12.18
	8.	International conference on communication computing & Internet of things- 2020	Sri Sairam engineering college	February 2020
	9.	Virtual International Conference on Futuristic Communication and Network Technologies(VI CFCNT 2020)	Virtually organized by Vellore Institute of Technology, Chennai	Nov 6-7, 2020
Industrial Visit:	Sl. No.	Title		Month/Year

	1.	Industrial visit Programme in training institute.	Rajiv Gandhi Memorial Telecom Training centre	
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Webinar:	Sl. No.	Title		Volume/ Date
	1.	Online Teaching and Branding	B.S.Abdur Rahman Crescent Institute of Science &Technology	20 April 2020
	2.	The four indispensable soft skills you need to master.	Sri Venkateswaraa College of Technology	2 May 2020
Chapter Contribution:	Sl. No.	Title	Published By	ISBN
	1.			

Workshop Details:

Sl. No.	Title	Venue	Month/Year
1.	Advanced VLSI Design	Savitha College of Engineering	2007
2.	ORCAD PCB Design	SSN College of Engineering College	2007
3.	Real time Embedded System	RMK college of Engineering	2008
4.	Emerging trends and future perspective in Image processing	Sri Sairam Engineering College	January 2017
5.	MATLAB Interfacing with Arduino	Agni College of Technology	5 th March 2016
6.	Machine Learning & Deep Learning	Anna University-Chennai	8 th & 9 th February 2019
7.	Intellectual Property Rights & Innovations	Sri Sairam Engineering College	20 th July 2019
8.	IoT using Raspberry Pi	Vellore Institute of Technology	2nd Oct'2020 to 4th Oct'2020

FDP Details:

Sl. No.	Title	Venue	Month/Year
1.	Quality Improvement Programme on "Instructional Design and Delivery" NITTTR	SMK Fomra Institute of Technology	28 th July 2006 to 30 th July 2006
2.	Quality Management System and Audit Training – ISO 9001: 2008	SMK Fomra Institute of Technology	12 th and 13 th August 2006
3.	Embedded Systems with ARM 7 Microcontrollers.	Sri Sairam Engineering College	25 th & 26 th June 2015

4.	Real Time Embedded System Applications Using ARDUINO and LABVIEW	Agni College of Technology	29 th & 30 th October 2015
5.	IOT using Raspberry Pi	Sri Sairam Engineering College	November 2016
6.	Engineering Teaching Pedagogy and Learning Process	Sri Sairam Engineering College	03 th - 07 th December 2018
7.	Optical Communication and Networks	Sri Sairam Engineering College	June 2017
8.	Robotics	Sri Sairam Engineering College	13 th - 18 th May 2019
9.			
10.	Data Acquisition & Signal Processing using LabVIEW	SRM Institute of Science & Technology	25 th & 26 th November 2019
11.	Advanced Simulation Tools for Electronics Engineers.	S A Engineering College.	27 th & 1 st May 2020
12.	Recent trends in Information, Computing, Communication and Teaching Methodology competency.	Sri Sairam Engineering College.	4 th to 17 th May 2020
13.			
14.	Artificial Intelligence	KIIT Deemed to be University (ATAL)	15 th & 19 th Oct 2020
15.	Electrical & Computer Engineering	Indian Institute of Information Technology Kottayam (ATAL)	4 th to 8 th Nov 2020
16.	Artificial Intelligence	Sri Sairam Engineering College. (ATAL)	7 th to 11 th Dec 2020
17.	FPGA based Digital System Design with HDL (Phase II)	Vel Tech Multi Tech Dr. Rangarajan Dr Saku	8 th to 13 th Feb 2021

		thala Engineering College, Avadi, Chennai	
18.	Deep Learning and its applications	Sri Sairam Engineering College	11 th to 15 th July 2022

Online Courses Details:

Online Course	Sl. No.	Title	Month&Year
NPTEL	1.	Biomedical Signal Processing	Jan-Apr 2019
	2.	Microprocessor & Microconyrollers	
	3.	Introduction to Soft Computing	Jan-Mar 2021
	4.	Introduction to Machine learning	
UDEMY	1.	Deep Learning A-Z Hands on Artificial Neural Networks	Nov-14 2019
	2.	Deep learning with Keras and Tensorflow in Python and R	April 13 2020
	3.	Support Vector machines in Python – SVM in Python 2019	April 15 2020
COURSERA	1.	Structuring Machine Learning Projects.	May-5 2020
	2.	Introduction to Big Data	May-18 2020
	3.	AI For Everyone	May-31 2020
FUTURE SKILL	1.	Introduction to Robotic Process Automation	April -2 2020
	2.	Introduction to Artificial Intelligence	April -9 2020

NITTTR	1.	Completed 6 Modules	
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Publication in Book Chapters:

- 1.

Publication in Journals:

1. Mahalakshmi, J. and Shanthakumari, G., 2017. Automated crop inspection and pest control using image processing. *International Journal of Engineering Research and development*, 13(3), pp.25-35.
2. IoAT(Internet of Agro Things) BASED AUTOMATIC PEST CONTROLDEVICE FOR SMART AGRICULTURE Aswin B, Srikumar R, Vasanth V, Shanthakumari G DOI: 10.46647/ijetms.2022.v06i04.043
3. Aravind, P., Shanthakumari, G., & Raghunath, D. (2019). Analysing The Quality Of A Fabric Using Arduino Uno. *Think India Journal*, 22(2), 398-402
4. . Sujatha, C., & Shanthakumari, G. Remote Robotic Arm Control Using LabVIEW.
5. Shanthakumari G Sneha M , Sayi Varsha Vardini S , Sargunavathy R., 2021. Optimized Foot Plantar Pressure Measurement System. *International Advanced Research Journal in Science, Engineering and Technology Volume 8, Issue 6, Pages136-140*
6. Shanthakumari G SG Udhayachandrika N , Koushika Vema , Shalini Kannan. Water Management using Remotely Operated Vehicle for Aquaculture, 2021.. *International Advanced Research Journal in Science, Engineering and Technology Volume 8, Issue 6, Pages136-140*
7. A. Kavin, G.Shanthakumari, 2014, Classification and Prediction of Critical Cardiac Arrhythmias Using Filter Bank and Fuzzy Classification Approach, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) NCACCT – 2014 (Volume 2 – Issue 12),
8. Stroke Analysis using EMG signals SN Ms G. Shantha Kumara, M. Hari haran, J. Ragul International Journal of All Research Education and Scientific Methods

Publication in Conferences:

1. Shanthakumari, G., & Priya, E. (2022). Interpretation of Lung Sounds Using Spectrogram-Based Statistical Features. In *Futuristic Communication and Network Technologies* (pp. 815-823). Springer, Singapore..
2. Shanthakumari, G., & Priya, E. (2022, March). Spectrogram-based detection of crackles from lung sounds. In *2022 International Conference on Communication, Computing and Internet of Things (IC3IoT)* (pp. 1-6). IEEE.
3. Shanthakumari, G., & Priya, E. (2018, December). Performance analysis: Preprocessing of respiratory lung sounds. In *International Conference of the Sri Lanka Association for Artificial Intelligence* (pp. 289-300). Springer, Singapore.
4. Beem, E. S., Shanthakumari, G., Karthik, R., & Devaharsha, C. (2018, February). Kite Power: Production of electricity from the wind current using kites. In *2018 International Conference on Communication, Computing and Internet of Things (IC3IoT)* (pp. 363-366). IEEE.

Patent Details:

1. A POWER GENERATING KITE SYSTEM- PRODUCTION OF ELECTRICITY FROM THE WIND-202041004990 Issued on Feb 14 2020

Additional Details:

Incharge

1. ARIIA Co-ordinator
2. Staff Details file
3. SPDP Cell member
4. Criteria 5- NBA
5. Class Co-ordinator (2011 -2015)(2015-2017)(2017-2020)(2019-2023)
6. Lab incharge- LIC Lab
7. Mentor-(2011 -2015)(2014-2018)(2017-2021)

Activity

- 1.

